REMINGTON ARMS COMPANY, INC.

FACTORY GUNSMITH SERVICE MANUAL

REMINGTON MODEL NYLON 10, 11 and 12

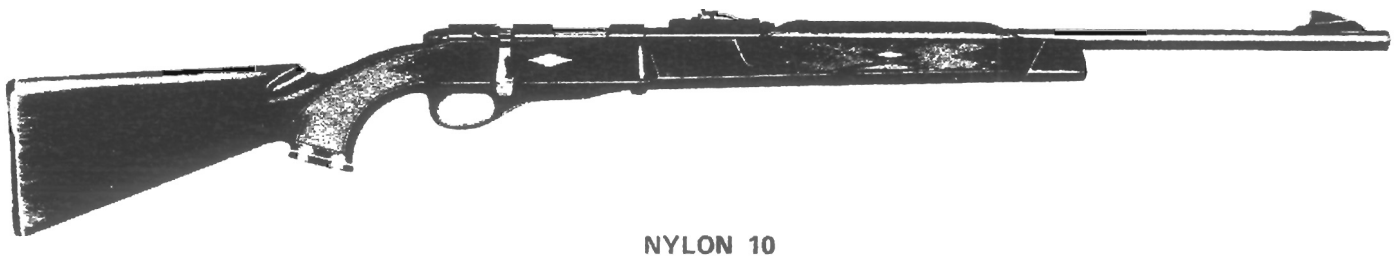
BOLT-ACTION .22 CALIBER RIM-FIRE REPEATING RIFLE

Remington Arms Company, Inc.
Arms Service Division
Ilion, New York 13357

REMINGTON
FIELD SERVICE MANUAL

The Remington Rifles Nylon 10, Nylon 11 and Nylon 12 are 22 Caliber bolt action rifles, similar in function to most rifles of the bolt action type. All are capable of handling 22 Short, Long or Long Rifle cartridges.

The Nylon 10 is a single shot rifle. The Nylon 11 is a repeater, clip magazine fed. These clips are obtainable in 6 or 10 shot capacity. The Nylon 12 is a repeater, fed from a tubular magazine. Generally speaking, all three (3) models have completely interchangeable parts with no factory readjustment required.



NYLON 10

Parts not common to all three (3) models will be described separetely for each model. Exploded views of each model are included as final pages to assist in proper identity of components.

Instruction folders are packaged with each rifle and are available from dealers or from the factory upon request. Nylon 10 Folder Form RD--5467, Nylon 11 Folder Form RD--5459 and Nylon 12 Folder Form RD--5460.

When handling the rifle for servicing or shipping make certain it is empty with no rounds in the magazine or barrel chamber.

INDEX

	Page
NYLON 10	1
Bolt Assembly	1
Bolt Assembly Components	1
TO COMPLETELY DISASSEMBLE	1
TO COMPLETELY REASSEMBLE	2
Malfunctions	2
NYLON 11	3
TO COMPLETELY DISASSEMBLE	3
TO COMPLETELY REASSEMBLE	3
Malfunctions	3
NYLON 12	3-4
TO COMPLETELY DISASSEMBLE	3
TO COMPLETELY ASSEMBLE	4
Malfunctions	4
Parts List	5
Exploded View	6
Stock Servicing	7

Send all guns for factory service and inquiries on service and parts to
REMINGTON ARMS COMPANY, INC.
Arms Service Division
Ilion, New York 13357

All other inquiries are to be addressed to
REMINGTON ARMS COMPANY, INC.
Bridgeport, Connecticut 06602

NYLON 10, NYLON 11 & NYLON 12

NYLON 10

BOLT ASSEMBLY

To Disassemble— Push safety switch forward to **"FIRE"** position (bolt will not retract if safety switch is in rear or **"ON SAFE"** position). Raise bolt handle, depress trigger and pull bolt assembly rearward from receiver to retract.

To Replace — Interchangeable within all three (3) models with no factory adjustment required.

To Reassemble— Bolt assembly must be cocked (safety switch indicator showing red at rear of bolt sleeve) to reassemble into receiver. Should bolt become uncocked while removed from the rifle (red band on safety switch indicator not showing) recock by pushing bolt into receiver as far as possible. With bolt handle on right side, lift bolt handle. This will rotate handle section enough to cock bolt. Red band marking will then appear at rear. With safety switch in forward position, depress trigger and, aligning bolt properly, slide into receiver until completely forward. Release trigger and lower bolt handle.

NOTE: Bolt will uncock if handle is lowered while trigger is depressed. (With safety switch forward).

BOLT ASSEMBLY — COMPONENTS (With bolt assembly removed from rifle) Bolt assembly should be uncocked before disassembly. To uncock, grasp bolt body in one hand and rotate bolt handle until firing pin cam pin (at base of handle) moves into forward position. **(See Fig. 1).**

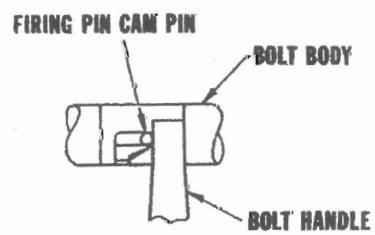


Fig. 1

Bolt is now uncocked (red indicator will now show). Drive out bolt sleeve pin and remove bolt sleeve, main spring and safety switch indicator. Tap out firing pin cam pin and remove bolt handle. Remove main spring plunger and firing pin assembly. Drive out right and left extractor pins and remove right and left extractor and extractor spring.

CAUTION: Extractors are under spring tension during removal. Hold to prevent loss.

To Reassemble — Place right extractor (having straight edge hook) into slot in right side of bolt. Drive in extractor pin from top. Place extractor spring in cross hole in bolt between extractors. Place left extractor (having angle edge hook) into slot in left side of bolt, compress spring, align holes and drive in extractor pin from top. **(See Fig. 2).**

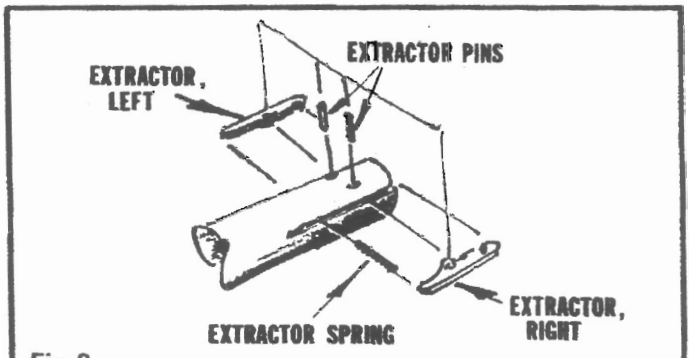


Fig. 2

Place firing pin assembly into bolt from rear, entering firing pin point into firing pin hole in front of bolt and slide forward. Place bolt handle over bolt with lug on cam forward and handle on right side. Assemble firing pin cam pin through cocking cam of bolt handle and firing pin. Place main spring plunger into bolt with small end forward. Place main spring into bolt sleeve and small end of safety switch indicator into main spring. With bolt handle in downward position (cam pin is forward) place large end of safety switch indicator into bolt against slotted end of main spring plunger with small hole in end of bolt. Compress main spring by pushing bolt sleeve on rear end of bolt, align holes and drive in bolt sleeve pin.

TO COMPLETELY DISASSEMBLE

REAR SIGHT ASSEMBLY COMPLETE

Unscrew front and rear sight screws and remove rear sight assembly complete.

FRONT SIGHT

Unscrew front sight screw (2) and remove front sight from barrel. Take care that small front sight washer (2) of white nylon are not lost.

BARREL (with sights removed)

Drive out barrel assembly pin and remove barrel through front of stock.

RECEIVER & STOCK ASSEMBLY

Unscrew takedown screw and lift receiver and components from stock assembly.

RECEIVER INSERT

Drive out receiver insert retaining pin (2) and pry receiver insert out of front of receiver.

SAFETY SWITCH

Unscrew safety switch screw located in right rear side of receiver, remove and lift off safety switch lever. Push safety switch into receiver from safety switch screw hole and remove from rear of receiver.

TRIGGER ASSEMBLY

Drive out trigger pin. Unscrew sear pivot screw and remove. Remove sear spacing collar. Push trigger assembly upward in receiver, feeding sear downward into magazine opening in bottom of receiver. Grasp sear and pull trigger assembly through magazine opening. Remove trigger spring and trigger spring plunger from hole in top of trigger.

EJECTOR

Remove ejector screw from left side of receiver and remove ejector.

TO COMPLETE REASSEMBLE

SAFETY SWITCH

Place safety switch into receiver through rear. Insert stem of safety switch into hole in right side wall of receiver with locking lug down. Hold safety switch in place and assemble safety switch lever over stem protruding through right side of receiver with thumbpiece of lever up. Insert safety switch lever screw through safety swtich lever and safety switch. Screw tightly into place.

TRIGGER SPRING & PLUNGER

Close in end coil of trigger spring so that it fits snugly over small end of trigger spring plunger holding plunger into spring. Assemble spring and plunger into hole in rear of top of trigger.

TRIGGER ASSEMBLY

Insert finger piece of trigger into magazine opening in bottom of receiver. Push trigger toward rear of receiver and feed finger piece down out of receiver through trigger opening. Line up pin holes and drive in trigger pin. Trigger spring plunger should ride under locking lug on bottom of safety switch.

EJECTOR

Place and hold ejector against left inside wall of receiver so that large hole faces to rear. Align front hole in ejector with ejector screw hole in left side of receiver and screw in ejector screw. Stake ejector screw at bottom of head. Insert sear spacing collar through magazine opening in bottom of receiver and place between sear and receiver. Align holes in ejector, sear and sear spacing collar with hole in left side of receiver and screw in sear pivot screw from left side. Sear pivot screw must be assembled to full depth, backed off one half turn and staked in place. Trigger should work freely.

RECEIVER INSERT

Slide receiver insert into receiver from front end with long end of insert facing to rear until front face of insert is flush with front end of receiver. Bottom of insert should rest on floor of receiver. Drive in receiver insert retaining pins (2). When reassembling replacement receiver insert, it will be necessary to drill the two retaining pin holes through the receiver insert, using a Number 22 (.157 dia.) drill and using the two pin holes in the front of the receiver as a guide.

STOCK TO RECEIVER

Place receiver into stock and assemble, screwing in takedown screw.

FRONT SIGHT TO BARREL

Place front sight on top of front end of barrel. Make sure that the two front sight washers are in place in bottom of counterbored holes in front sight, and attach front sight to barrel with the two front sight screws.

BARREL INTO RECEIVER

Push barrel through stock and into receiver until barrel assembly pin holes in receiver and barrel align. Drive in barrel assembly pin. When reassembling replacement barrel to receiver: Place heading plug in chamber of barrel, insert assembled bolt into receiver and close bolt. Force barrel back tightly against heading. Using a 1/8 dia. drill and a .129 dia. reamer, drill and ream assembly pin hole through barrel from hole in receiver. Drive in barrel assembly pin.

NOTE: Receiver as a replacement part requires special tooling.

REAR SIGHT ASSEMBLY COMPLETE TO BARREL

Place assembly on top of barrel and assemble with front and rear screws.

To Replace — All parts are completely interchangeable with no factory adjustment required. For special instruction for replacement of receiver insert, barrel and receiver see reassembly instructions. Stock to be replaced as an assembly. Stock assembly is a welded nylon unit factory listed to include: butt plate, butt plate spacer, diamond inlay (2), fore-end tip, fore-end tip spacer, grip cap, grip cap spacer, stock, stock filler and trigger guard.

MALFUNCTIONS

Cause and Correction

1. **Fails to Eject**
   - a. Cause — Extractor out of adjustment.
     Corrections — Put more tension on extractors or fit new.
   - b. Cause — Ejector out of position.
     Corrections — Fit new ejector.

2. **Firing Pin Follows Down**
   - a. Cause — Poor firing pin or sear notches.
     Corrections — Fit new firing pin or sear or both.

3. **Bolt Pulls Out**
   - a. Cause — Broken sear.
     Corrections — Fit new sear.

4. **Misfires**
   - a. Cause — Poor blow.
     Corrections — Fit new firing pin or new main spring.

NYLON 10, NYLON 11 & NYLON 12

NYLON 11

TO COMPLETELY DISASSEMBLE (With bolt removed)

Pull magazine lock rearward, disengaging clip magazine and remove clip magazine. Disassemble barrel, sights and stock assembly in same manner as the Nylon 10.

MAGAZINE LOCK (with stock removed)

Unscrew magazine lock screw from bottom of rear receiver insert and remove magazine lock and magazine lock spacer.

RECEIVER INSERT, FRONT (With stock removed)

See Nylon 10 instructions.

RECEIVER INSERT, REAR & EJECTOR

Unscrew ejector screw and sear pivot screw and remove from left side of receiver. Remove receiver insert and ejector, sliding insert through front of receiver.

For disassembly of remaining components see Nylon 10 instructions.

TO COMPLETELY REASSEMBLE

RECEIVER INSERT, REAR & EJECTOR

Place ejector upon left side of receiver insert, rear. Place insert and ejector into front end of receiver with flat side of insert toward the right and curved end forward. Slide back into receiver, align front hole in insert and ejector with hole in left side of receiver and screw in ejector screw. With detents in safety switch straddling trigger spring plunger in trigger, hold back on trigger, align holes in receiver, ejector and sear, and screw in sear pivot screw from left side. Sear pivot screw must be assembled to full depth, backed off one-half turn and staked in place. Trigger should now work freely.

RECEIVER INSERT,FRONT

See Nylon 10 instructions.

MAGAZINE LOCK

Place magazine lock spacer and magazine lock on bottom of receiver insert, rear with spring extending downward and forward. Screw in magazine lock screw.

For reassembly of remaining parts see Nylon 10 instructions.

MALFUNCTIONS
Cause and Correction

1. **Fails To Eject**
   - a. Cause — Extractors out of adjustment
     Corrections — Put more tension on extractors or fit new.
   - b. Cause — Ejector out of position
     Corrections — Fit new ejector

2. **Firing pin Follows Down**
   - a. Cause — Poor firing pin or sear notches.
     Corrections — Fit new firing pin or sear or both.

3. **Bolt Pulls Out**
   - a. Cause — Broken sear.
     Corrections — Fit new sear.

4. **Misfires**
   - a. Cause — Poor blow.
     Corrections — Fit new firing pin or new main spring.

5. **Fails To Feed**
   - a. Cause — Magazine out of adjustment.
     Corrections — Adjust magazine or fit new.
   - b. Cause — Extractors out of adjustment.
     Corrections — Adjust tension on extractors.

NYLON 12

TO COMPLETELY DISASSEMBLE (With bolt removed)

Unlock and remove inner magazine tube assembly from outer magazine tube. Unscrew and remove takedown screw assembly. Remove outer magazine tube from stock assembly. Disassemble barrel, sights and stock assembly in the same manner as the Nylon 10 and Nylon 11.

CARTRIDGE RETAINER

Unscrew cartridge retainer spring screw from left side of receiver. Remove cartridge retainer spring and cartridge retainer from slot in left side of receiver.

CARRIER AND CARTRIDGE STOP

Unscrew sear pivot screw and disassemble carrier, cartridge stop, carrier spacer bushing and carrier tension spring through bottom of receiver.

EJECTOR

Unscrew ejector screw and remove ejector.

RECEIVER INSERT

Disassemble in same manner as Nylon 10 and Nylon 11.

CARTRIDGE STOP PLUNGER

Unscrew cartridge stop plunger screw from side of receiver insert and remove cartridge stop plunger and spring.

For disassembly of remaining components, see Nylon 10 instructions.

TO COMPLETELY ASSEMBLE

CARTRIDGE STOP PLUNGER

Place cartridge stop plunger spring and cartridge stop plunger into hole in rear of receiver insert, depress plunger and screw cartridge stop plunger screw into hole in left side of insert. Plunger should work freely.

CARRIER AND CARTRIDGE STOP (See exploded view for identification of parts)

Place carrier upon left side of cartridge stop. Stud on side of cartridge stop will face up and spring tabs on both parts will face each other on bottom. Align holes at rear of both parts and insert small end of carrier spacer bushing from right side of cartridge stop. Insert carrier tension spring between tabs and rotate carrier, compressing spring, until elongated slot in receiver fits over stud on side of cartridge stop.

EJECTOR AND RECEIVER INSERT

See Nylon 10 Instructions.

CARRIER AND CARTRIDGE STOP INTO RECEIVER

Place assembled carrier and cartridge stop unit into receiver with carrier tension spring at bottom and carrier spacer bushing facing to the right. Fit between sear and right inside wall of receiver and align holes in receiver, ejector and sear with holes in carrier spacer bushing. Screw sear pivot screw into receiver from left side. Sear pivot screw must be assembled to full depth, backed off one-half turn and staked in place. Trigger should work freely. Push upwards on bottom of cartridge stop as far as it will go into receiver.

CARTRIDGE RETAINER

Place cartridge retainer into slot centrally in left side of receiver with bent ends facing out. Place cartridge retainer spring into hole in center of slot and screw in retainer screw until it is flush with the outside of receiver.

STOCK ASSEMBLY

Place receiver into stock. Insert outer magazine tube into hole at end of stock and push rearward as far as possible. Cartridge loading ports in bottom of stock and tube should line up. Screw in and tighten takedown screw.

BARREL AND SIGHTS

See Nylon 10 Instructions.

INNER MAGAZINE TUBE ASSEMBLY

Insert inner magazine tube assembly into outer magazine tube and turn clockwise to lock. Replacement as a unit recommended.

BOLT ASSEMBLY

See Nylon 10 instructions. Make sure when replacing bolt assembly that cartridge stop is in upward position. If not, reach into receiver with small tool and press downward on rear of stop.

To Replace – All parts are completely interchangeable with no factory adjustment required. For special instructions for replacement of the receiver insert, barrel or receiver see reassembly instructions for the Nylon 10.

MALFUNCTIONS
Cause and Correction

1. **Fails to Eject**
   - a. Cause – Extractors out of adjustment.
     Corrections – Put more tension on extractors or fit new.
   - b. Cause – Ejector out of position.
     Corrections – Fit new ejector.

2. **Firing Pin Follows Down**
   - a. Cause – Poor firing pin or sear notches.
     Corrections – Fit new firing pin or sear or both.

3. **Bolt Pulls Out**
   - a. Cause – Broken sear.
     Corrections – Fit new sear.

4. **Misfires**
   - a. Cause – Poor blow.
     Corrections – Fit new firing pin or new main spring.

5. **Failure to Feed**
   - a. Cause – Cartridge retainer out of position.
     Corrections – Adjust cartridge retainer or fit new.
   - b. Cause – Carrier out of adjustment.
     Corrections – Fit new carrier.
   - c. Cause – Sharp edges or burrs on detent on front edge of cartridge stop.
     Corrections – Stone off sharp edges or burrs.

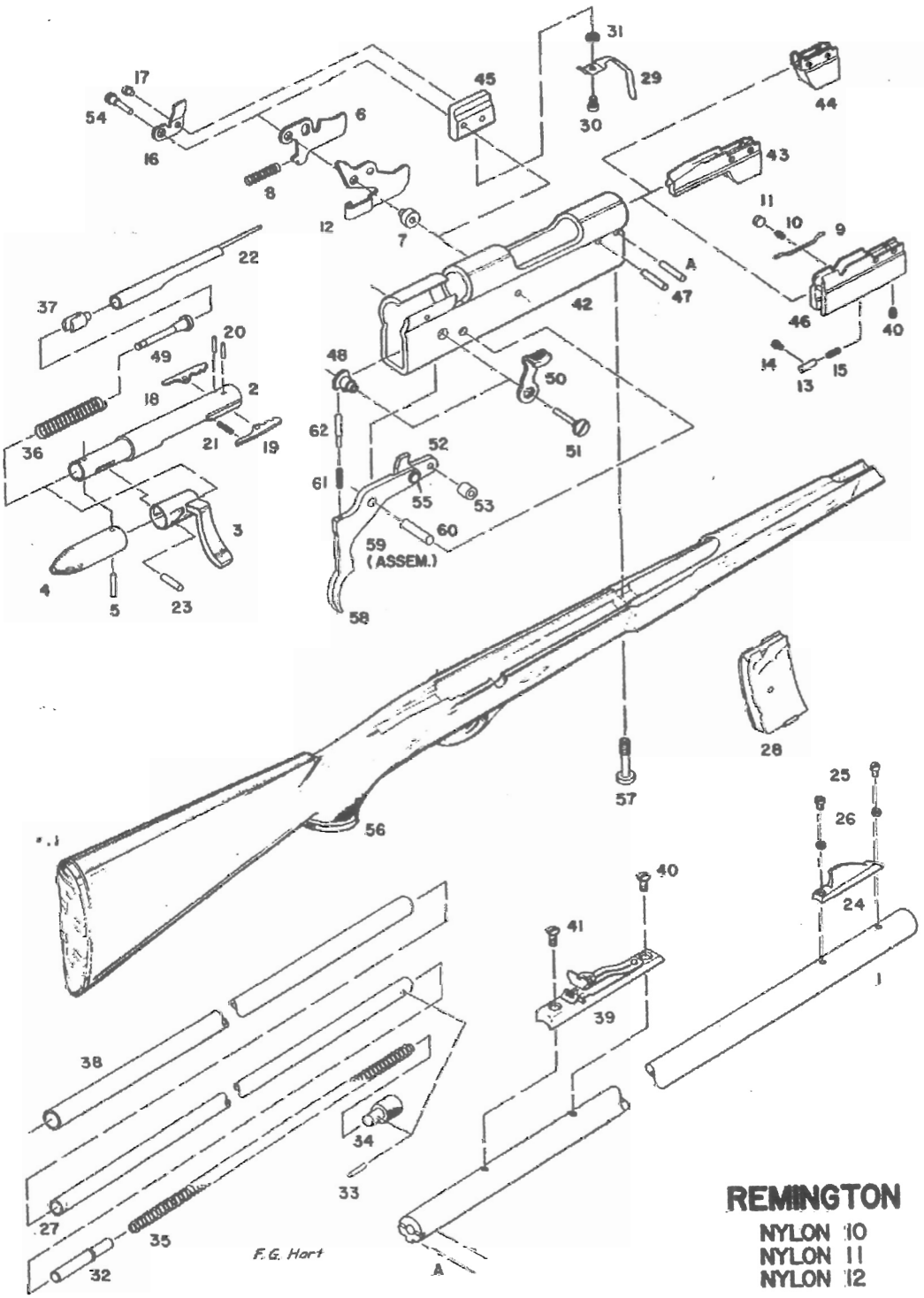
REMINGTON
FIELD SERVICE MANUAL

View No.	Part No.	NAME OF PART
1	15323	Barrel
	15309	Barrel Assembly Pin
2	22820	Bolt
	26510	Bolt Assembly
3	26455	Bolt Handle Assembly
4	18433	Bolt Sleeve
5	17922	Bolt Sleeve Pin
6	13	Carrier (Nylon 12)
7	14	Carrier Spacer Bushing (Nylon 12)
8	18664	Carrier Tension Spring (Nylon 12)
9	17	Cartridge Retainer (Nylon 12)
10	19624	Cartridge Retainer Spring (Nylon 12)
11	19	Cartridge Retainer Spring Screw (Nylon 12)
12	20	Cartridge Stop (Nylon 12)
13	21	Cartridge Stop Plunger (Nylon 12)
14	22	Cartridge Stop Plunger Screw (Nylon 12)
15	23	Cartridge Stop Plunger Spring (Nylon 12)
16	30	Ejector (Nylon 10, 12)
	330	Ejector (Nylon 11)
17	31	Ejector Screw (Nylon 10, 12)
	331	Ejector Screw (Nylon 11)
18	32	Extractor, Left
19	34	Extractor, Right
20	17571	Extractor Pin
21	35	Extractor Spring
22	26465	Firing Pin Assembly
23	15302	Firing Pin Cam Pin
24	16545	Front Sight
25	16892	Front Sight Screw
26	16968	Front Sight Washer
27	15318	Inner Magazine Tube (Nylon 12)
	26470	Inner Magazine Tube Assembly (Nylon 12)
28	1010	Magazine Assembly (Nylon 11) (6-Shot)
	2170	Magazine Assembly (Nylon 11) (10-Shot)
29	596	Magazine Lock (Nylon 11)
30	15307	Magazine Lock Screw (Nylon 11)
31	15312	Magazine Lock Spacer (Nylon 11)
32	15313	Magazine Follower (Nylon 12)
33	25090	Magazine Pin (Nylon 12)
34	25095	Magazine Plug (Nylon 12)
	15314	Magazine Retainer (Nylon 12)
	15308	Magazine Retainer Spring (Nylon 12)
	15305	Magazine Retainer Spring Pin (Nylon 12)
35	15391	Magazine Spring (Nylon 12)
36	15301	Main Spring
37	58	Main Spring Plunger
38	15319	Outer Magazine Tube (Nylon 12)
	24400	Rear Sight Assembly
39	26460	Rear Sight Assembly, Complete
	15322	Rear Sight Plate
	16528	Rear Sight Rivet
40	15325	Rear Sight Screw, Front
41	15326	Rear Sight Screw, Rear
42	15317	Receiver (Nylon 10, 11)
	15327	Receiver (Nylon 12)
43	15764	Receiver Insert (Nylon 10)
44	15765	Receiver Insert, Front (Nylon 11)
45	15311	Receiver Insert, Rear (Nylon 11)
46	15766	Receiver Insert (Nylon 12)
47	15306	Receiver Insert Retaining Pin
	73	Receiver Insert Spacer (Nylon 12)
	74	Receiver Insert Spacer Pin (Nylon 12)
48	250	Safety Switch (Nylon 10)
	499	Safety Switch (Nylon 11, 12)
49	128	Safety Switch Indicator
50	15329	Safety Switch Lever
51	252	Safety Switch Screw
52	15330	Sear
53	85	Sear Spacing Collar (Nylon 10)
54	84	Sear Pivot Screw
55	86	Sear Stud
57	15316	Take Down Screw (Nylon 10, 11)
	15315	Take Down Screw (Nylon 12)
	26480	Take Down Screw Assembly (Nylon 12)
58	15324	Trigger
59	26485	Trigger Assembly
60	98	Trigger Pin
61	15303	Trigger Spring
62	15304	Trigger Spring Plunger
	16529	Windage Screw

ACCESSORIES (Not Shown)

25886	Sling Strap Assembly
15050	Sling Strap Retainer
15055	Swivel Retaining Screw
26170	Sling Strap Assembly and Mountings, Complete

REMINGTON FIELD SERVICE MANUAL



NYLON 10, NYLON 11 & NYLON 12

STOCK

Listed below is the recommended method of restoring the finish on the Nylon's stock.

Scratches:	Use finely powdered pumice stone and oil. Rub with felt pad. Wipe clean and dry.
Abrasion:	Use Du Pont auto rubbing compound. Rub with cloth pad. Wipe clean and dry.
For Polishing:	Use Du Pont Auto waxes.
To Clean Checkering: (and Striations)	Use stiff tooth brush.

Listed below is the recommended method of servicing for butt plates, grip caps, etc.

CAUTION: Phenol is used in the weld assembly of nylon components. Use all necessary acid handling precautions.

Follow numbered sequences:

1. Swab both joining surfaces with phenol. Take care that acid is applied to contact surfaces **only**.

2. Two (2) applications should be sufficient.

3. Allow swabbed surfaces to saturate thoroughly for at least five (5) minutes before joining.

4. Join saturated surfaces and hold in place. Use tape or clamps.

   NOTE: Care should be taken that acid in excess is not applied to joining surfaces. Excess acid, squeezed or extruded from joined surfaces, must be removed immediately. Blemished areas will appear on unjoined areas if acid saturation is allowed to develop.

5. Allow at least one (1) hour for joined surfaces to weld together. Then remove tape or clamps. To remove slight abrasions or blemished in weld areas, use a good grade of auto rubbing compound.